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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/766,607	12/13/1996	JEFFREY JACOBSEN	KPN96-03A	7687
21005	7590 06/01/2005		EXAMINER	
HAMILTO 530 VIRGIN	N, BROOK, SMITH & I	PIZIALI, JI	PIZIALI, JEFFREY J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	08/766,607	JACOBSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
·		į				
The MAILING DATE of this communication app	Jeff Piziali	2673				
Period for Reply	· · · · · · · · · · · · · · · · · · ·	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONF	ely filed s will be considered timely. the mailing date of this communication.				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 M</u>	ay 2005.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25 and 27-29</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25 and 27-29</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r .					
10)⊠ The drawing(s) filed on <u>13 December 1996</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct		• •				
11) ☐ The oath or declaration is objected to by the Ex		• •				
Priority under 35 U.S.C. § 119						
	majority	(4) (6)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)	Λ. Π. 1.1 1.1 2	(PTO 440)				
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)				
S. Patent and Trademark Office	0) [_] Ouler:					

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6 May 2005 has been entered.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-25 and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilska et al. (United Kingdom 2,289,555) in view of Takahara et al. (US 5,436,635).

In regards to claim 1, Wilska discloses a docking system for a portable wireless telephone, the portable wireless telephone [17] including a microphone [20], a speaker [19], and transceiver [18] circuitry with an external communication interface [16] within a telephone housing [17], the docking system comprising: a display housing [1] (see Figures 1-3; Page 5, Paragraph 3) having a plurality of control elements [10, 11] (see Figure 3; Page 4, Paragraph 3) and a display circuit [6], the display housing including a connection interface [8] that couples

with an external communication interface [16] of a handheld wireless telephone [17] selected from a plurality of handheld wireless telephones, such that image data received by the handheld wireless telephone is transmitted to the display circuit (see Figure 3; Page 5, Paragraph 3) and a liquid crystal display [9] mounted to the display housing and connected to the display circuit, the display circuit generating display data presented on the liquid crystal display as an image (see Figures 1-2; Page 4, Paragraph 2). Wilska does not expressly disclose an active matrix LCD, a light source, nor an image lens.

However, Takahara discloses an active matrix liquid crystal display (see Column 33, Lines 22-28), a light source [Fig. 21, 211] positioned in a display housing [Fig. 21, 201] to illuminate the image [Fig. 21, 214], and a lens [Fig. 21, 216] in the display housing positioned to receive the image presented on the LCD for viewing by a user (see Column 28, Lines 30-49). Wilska and Takahara are analogous art because they are from the shared field of handheld display devices. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to utilize Takahara's active matrix LCD, light source, and lens assembly with Wilska's communication device, so as to provide a high quality, liquid crystal image that's easy to see (and read) in both dark and bright light.

In regards to claim 2, Wilska discloses at least a 320 x 240 pixel array (see Page 4, Paragraph 2).

In regards to claim 3, Wilska does not expressly disclose at least a 640 x 480 pixel array. However, Wilska does disclose providing a resolution greater than 640 x 200 pixels<sup>2</sup> (see Page 4,

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Paragraph 2). Therefore, for the purpose of providing a precise display image, it would have been obvious to an artisan at the time of invention to utilize at least a 640 x 480 pixel array.

In regards to claim 4, Wilska does not expressly disclose a transistor circuit array formed with single crystal silicon bonded to an optically transmissive substrate. However, Takahara discloses a transistor circuit array [Fig. 18A, 163] formed with single crystal silicon [Fig. 18A, 167c] bonded to an optically transmissive substrate [Fig. 18A, 162] with an adhesive layer [Fig. 18A, 167 a & 167b] (see Column 24, Line 44 - Column 25, Line 59). Therefore, it would have been obvious to an artisan at the time of invention to use Takahara's transistor circuit array as Wilska's LCD so as to reduce extraneous light reflectance.

In regards to claim 5, Wilska discloses a transmitter (see Figures 1-2; Page 5, Paragraph 3).

In regards to claim 6, Wilska discloses the display housing has a volume less than 1000 cm<sup>3</sup> (see Page 3, Paragraph 8).

In regards to claim 7, this claim is rejected by the reasoning applied in the above rejection of claim 1; furthermore, Wilska discloses a docking system [17] for a portable handheld wireless telephone [17], the portable wireless telephone [17] including a microphone [20], a speaker [19], and transceiver [18] circuitry with an external communication interface [16] within a telephone housing [17], the docking system comprising: a handheld housing [1] having a plurality of

control elements [10, 11] and a display circuit [6], the handheld housing including a connection interface [8] that couples with an external communication interface [16] of a handheld wireless telephone [17] selected from a plurality of handheld wireless telephones (see Figures 1-3; Page 4, Paragraph 3 and Page 5, Paragraph 3); a display subhousing [9] carried by the handheld housing and moveable between a storage and operating position (see Figures 7-9), and a liquid crystal display [9] (see Figures 1-2; Page 4, Paragraph 2). Wilska does not expressly disclose an active matrix LCD, an LED light source, nor a magnifying image lens.

However, Takahara discloses an active matrix liquid crystal display (see Column 33, Lines 22-28), an LED light source [Fig. 21, 211] (see Column 30, Lines 1-18) positioned in a display subhousing [Fig. 21, 201] to illuminate the image [Fig. 21, 214] and a lens [Fig. 21, 216] in the display subhousing that is positioned to magnify the image presented on the LCD (see Column 28, Lines 30-49). Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to utilize Takahara's active matrix LCD, LED light source and magnifying lens assembly with Wilska's communication device, so as to provide a high quality liquid crystal image that's easy to see (and read) in both dark and bright light.

In regards to claim 8, Wilska does not expressly disclose a timing circuit. However, Takahara discloses a timing circuit (see Column 6, Line 52 - Column 7, Line 12). Therefore, it would have been obvious to an artisan at the time of invention to use Takahara's timing circuit with Wilska's LCD so as to regulate driving-signal flow to the display.

In regards to claim 9, Wilska discloses a battery [3] (see Figure 3).

In regards to claim 10, Wilska discloses a cradle [16] (see Figure 2; Page 5, Paragraph 2). For the purpose of securing the telephone to the communication device, it would have been obvious to an artisan at the time of invention to utilize Wilska's cradle to connect a telephone and to obtain the invention as specified in claim 10.

In regards to claim 11, Wilska discloses a connector [8] adapted to be received by the external communication interface in the handheld wireless telephone [17], further comprising a latch [16]. For the purpose of securing the telephone to the communication device, it would have been obvious to an artisan at the time of invention to utilize Wilska's latch to connect a telephone and to obtain the invention as specified in claim 11.

In regards to claim 12, Wilska discloses a hidden lens in the storage position and a viewable lens in the operating position (see Figures 7-9; Page 10, Paragraph 3).

In regards to claim 13, Wilska discloses a rotatable display subhousing (see Figures 7-9; Page 10, Paragraph 3).

In regards to claim 14, Wilska discloses a display subhousing that translates relative to the handheld housing (see Figures 7-9; Page 10, Paragraph 3).

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In regards to claim 15, Wilska discloses a display that both rotates and moves translationally (see Figures 7-9; Page 10, Paragraph 3).

In regards to claim 16, Wilska does not expressly disclose the array of pixel electrodes has a diagonal of 0.25 inches. However, for the purposes of manufacturing an easy to read display while keeping the display small and portable, it would have been obvious to an artisan at the time of invention to utilize a diagonal of 0.25 inches to obtain the invention as specified in claim 16.

In regards to claim 17, this claim is rejected by the reasoning applied in the above rejection of claim 1; furthermore, Wilska discloses a docking system [17] for a portable handheld wireless telephone [17], the portable wireless telephone [17] including a microphone [20], a speaker [19], and transceiver [18] circuitry with an external communication interface [16] within a telephone housing [17], the docking system comprising: a housing [1] having a plurality of control elements [10, 11] and a display circuit [6], the housing including a connector interface [8] that couples with an external communication interface [16] of a handheld wireless telephone [17] selected from a plurality of handheld wireless telephones (see Figures 1-3; Page 4, Paragraph 3 and Page 5, Paragraph 3), a display subhousing module [9] movable from a storage position to an operating position relative to the housing (see Figures 7-9) and a liquid crystal display [9] (see Figures 1-2; Page 4, Paragraph 2) and a battery [3] (see Figure 3). Wilska does not expressly disclose an active matrix LCD, an LED light source or a magnifying image lens.

However, Takahara discloses an active matrix liquid crystal display (see Column 33, Lines 22-28), an LED light source [Fig. 21, 211] (see Column 30, Lines 1-18) positioned in a display subhousing [Fig. 21, 201] to illuminate the image [Fig. 21, 214] and a lens [Fig. 21, 216] in the display subhousing that is positioned to receive the image presented on the LCD (see Column 28, Lines 30-49). Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to utilize Takahara's active matrix LCD, LED light source and magnifying lens assembly with Wilska's communication device, so as to provide a high quality liquid crystal image that's easy to see (and read) in both dark and bright light.

In regards to claim 18, Wilska does not expressly disclose a backlight. However, Takahara discloses a backlight [Fig. 21, 211] (see Column 28, Lines 30-49 and Column 30, Lines 1-18). Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to utilize Takahara's backlight with Wilska's LCD, so as to provide a display that's easy to see (and read) in the dark.

In regards to claim 19, Wilska does not expressly disclose a side illumination device. However, Takahara discloses a side illumination device [Fig. 21, 211] (see Column 28, Lines 30-49 and Column 30, Lines 1-18). Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to utilize Takahara's side illumination device with Wilska's LCD, so as to provide a display that's easy to see (and read) in the dark.

In regards to claim 20, this claim is rejected under the reasoning applied in the above rejection of claim 8.

In regards to claim 21, Wilska does not expressly disclose drawing less than 0.2 watts. However, for the purpose of drawing very little power, it would have been obvious to draw less than 0.2 watts to obtain the invention as specified in claim 21.

In regards to claim 22, this claim is rejected by the reasoning applied in the above rejection of claim 1; furthermore, Wilska discloses a method of displaying an image on a docking system in conjunction with a portable handheld wireless telephone, the portable wireless telephone [17] including a microphone [20], a speaker [19], and transceiver [18] circuitry with an external communication interface [16] within a telephone housing [17], the method comprising: coupling an external communication interface [16] of a wireless telephone [17] selected from a plurality of wireless telephones with a connection interface [8] of a docking station [1] such that a display circuit [6] in the docking station receives image data from transceiver circuitry [17 & 18] of the wireless telephone capable of receiving audio and image data; and operating the display circuit connected to the transceiver circuitry and a matrix display to display an image on the display using the image data (see Figures 1-3; Page 5, Paragraph 3). Wilska does not expressly disclose an active matrix LCD.

However, Takahara discloses an active matrix LCD for generating display data from image data and presenting the display data as an image on the display (see Column 33, Lines 22-28). Thus, it would have been obvious to a person of ordinary skill in the art, at the time of the

invention, to utilize Takahara's active matrix LCD as Wilska's matrix display, so as to provide a

high quality display image.

In regards to claim 23, Wilska discloses a battery [3] (see Figure 3).

In regards to claim 24, Wilska discloses coupling a camera [15, 16] (see Figures 1-3; Page 4, Paragraph 5).

In regards to claim 25, Wilska discloses selecting to view the camera image on the display, or transmitting the image to a remote location (see Figures 1-3; Page 5, Paragraph 1).

In regards to claim 27, Wilska discloses an array of at least 75,000 pixel electrodes (see Page 4, Paragraph 2). Wilska does not expressly disclose the LCD having an active area of less than 100mm<sup>2</sup>. However, Wilska's does disclose variable LCD dimensions (see Page 4, Paragraph 2). Therefore, it would have been obvious to an artisan at the time of invention to utilize a smaller display area (such as 100mm<sup>2</sup> for instance) so as to conserve overall system size and weight.

In regards to claim 28, Wilska does not expressly disclose an array of at least 300,000 pixel electrodes. However, Wilska does disclose providing a resolution greater than 640 x 200 pixels<sup>2</sup> (see Page 4, Paragraph 2). Therefore, for the purpose of providing a precise display

image, it would have been obvious to an artisan at the time of invention to utilize at least 300,000

pixel electrodes.

In regards to claim 29, this claim is rejected by the reasoning applied in the above

rejection of claim 1.

4. This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Response to Arguments

5. Applicants' arguments filed 6 May 2005 have been fully considered but they are not

persuasive. The applicants contend the cited prior art of Wilska (United Kingdom - 2,289,555)

neglects to disclose a wireless handheld telephone selected from a plurality of handheld wireless

telephones (see page 10 of the amendment). The examiner respectfully disagrees. Wilska's

radio-telephone [Fig. 3, 17] is disclosed "preferably as an integrated part" of the notebook

computer (see Page 5, Paragraph 3 - Page 6, Paragraph 1). It is the examiner's position that

Wilska implicitly implies with the above statement that a radio-telephone may also be externally attached (i.e. docked) to the notebook computer.

Furthermore, even if that were arguably not the case, Wilska's preferred 'integrated' embodiment already fully constitutes a docking system as presently claimed. That is to say, fully reading on current claim language, Wilska's radio-telephone (i.e. "handheld wireless telephone") is indeed coupled/connected (i.e. "docked") with the display housing [Figs. 1 & 2, 1].

However, beyond these matters of semantics, Wilska explicitly discloses an alternate inventive embodiment comprising a cellular mobile phone system on a removable PCMCIA interface card, docking with the notebook computer's card slot [Fig. 3, 16] (see Page 14, Paragraph 2).

Moreover, one skilled in the art would appreciate that Wilska's handheld wireless telephone is not one of a kind, but instead one particular telephone device selected from a commonly known and understood consumer pool of millions upon millions of wireless phones.

By such reasoning, rejection of the claims is deemed necessary, proper, and thereby maintained at this time.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jeff Piziali whose telephone number is (571) 272-7678. The

examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

26 May 2005

BIPIN SHALWALA

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